VOITLÄNDER-INTERNATIONAL

WEBSITE
www.voitlaender-international.com
/qr/corrosion/website/

VOITLÄNDER
INTERNATIONAL

HIGH PERFORMANCE MEETS RESPONSIBILITY · LUBRICANTS FOR A NEW GENERATION.

CORROSION PROTECTION · PROTECTION YOU CAN MEASURE

Voitländer-International, your partner for temporary corrosion protection in storage, in-plant handling and shipping. Four protection levels, each quantified by the salt spray test per DIN EN ISO 9227, plus one water-displacing post-treatment oil for blackened steel surfaces.

MADE IN GERMANY

ISO 9001:2015 CERTIFIED

FULL PRODUCT RANGE ONLINE
www.voitlaender-international.com
/qr/corrosion/range/

UNPROTECTED AND PROTECTED

Without protection
untreated metal goes into storage, intermediate storage and shipping unprotected; that is exactly what in-plant preservation and shipping protection are for

With protection
a thin film, quantified by the salt spray test per DIN EN ISO 9227, carries the part through storage and transport and is removed again before further processing

ABOUT US

ABOUT VOITLÄNDER-INTERNATIONAL • INNOVATION MEETS EXPERIENCE

- **Voitländer-International unites more than 180 years of German lubricant manufacturing with the innovative drive of a modern startup. From the fusion of a heritage company dating back to 1843 with LubeLabs, a young specialist focused on high-performance industrial lubricants, a new brand emerged: the best of both worlds, heritage and innovation combined.**
- **Today, Voitländer-International develops and produces industrial lubricants in Kronach for applications where precision and quality are decisive. This catalog presents the Labstect corrosion protection line: temporary thin-film preservatives for storage, in-plant handling and shipping, plus one post-treatment oil for blackened steel surfaces. They are part of a full-range portfolio of more than 2,000 high-quality products from a company certified to ISO 9001:2015.**
- **What sets us apart is not only the product, but the partnership: our laboratory adapts formulations to your parts and your process, and our technical service supports you from product selection to the finished protective film. Custom-tailored solutions are based on exact laboratory results.**

Our roots: the original Voitländer works, est. 1843, merged with LubeLabs (Green Industrial Lubricants) to form Voitländer-International.

MEASURABLE PERFORMANCE.

PRODUCT OVERVIEW

THE PROTECTION LEVELS · WHICH PRODUCT CARRIES HOW LONG?

Four documented protection levels, in ascending order of the salt spray test per DIN EN ISO 9227: approx. 5 h, ≥ 10 h, ≥ 16 h and ≥ 28 h. LABSTECT S 62176 PLUS 2 and LABSTECT S 100176 sit on the same level; in the data sheets they differ in flash point alone. Two products sit outside the ladder because their data sheet states no salt spray result. All values are taken from the current technical data sheets.

PRODUCT	USE	FILM WEIGHT	SALT SPRAY TEST DIN EN ISO 9227	FLASH POINT	PAGE
LABSTECT WM X150	Water-miscible emulsion for heated dip baths, 60 °C to 80 °C	5.2 g/m² (100 %)	> 1 h (100 %)**	> 100 °C	12
LABSTECT INDOOR 365	Indoor storage and transports within Germany	approx. 2.4 g/m²	approx. 5 h	> 62 °C	5
LABSTECT S 62176	In-plant preservation and shipping protection of metallic components	1.3 g/m²	≥ 10 h	> 62 °C	6
LABSTECT S 62176 PLUS 1	In-plant preservation and shipping protection of metallic components	1.3 g/m²	≥ 16 h	> 62 °C	7
LABSTECT S 62176 PLUS 2	In-plant preservation and shipping protection of metallic components	1.3 g/m²	≥ 28 h	> 62 °C	8
LABSTECT S 100176	Same level as PLUS 2, but with a flash point above 100 °C	1.3 g/m²	≥ 28 h	> 100 °C	9
LABSTECT DW BRÜN 60	Post-treatment oil for blackened steel surfaces*	not stated	not stated	> 62 °C	10
LABSTECT 10	Corrosion protection oil for metalworking, storage and transport*	not stated	not stated	> 62 °C	11

* These two products sit outside the ladder. Their technical data sheets state neither a film weight nor a salt spray result; they are deliberately listed without a figure. LABSTECT DW BRÜN 60 is a post-treatment oil for blackened steel surfaces, LABSTECT 10 a corrosion protection oil for metalworking. ** LABSTECT WM X150 is a water-miscible emulsion; the figure applies at 100 % active substance per DIN EN ISO 9227 NSS and is not comparable with the undiluted products without that concentration. The product additionally passes more than 4 cycles of the humidity-cycle test per DIN EN ISO 6270-2. The film weight of LABSTECT INDOOR 365 is determined internally, the film weights of the S 62176 range gravimetrically.

PRODUCT OVERVIEW

APPLICATION MATRIX · WHERE THE DATA SHEETS LIST THE PRODUCT

Product	Indoor storage	In-plant intermediate storage	Shipping and transport	Blackened surfaces	Heated dip baths
LABSTECT INDOOR 365	●	·	●	·	·
LABSTECT S 62176	·	●	●	·	·
LABSTECT S 62176 PLUS 1	·	●	●	·	·
LABSTECT S 62176 PLUS 2	·	●	●	·	·
LABSTECT S 100176	·	·	·	·	·
LABSTECT DW BRÜN 60	·	·	·	●	·
LABSTECT 10	·	·	●	·	·
LABSTECT WM X150	·	·	·	·	●

● = application documented in the current technical data sheet · = not listed for this product (an absent mark is not a negative rating). LABSTECT S 100176 carries no mark because its data sheet states no application areas of its own; please confirm the selection with our technical service. LABSTECT DW BRÜN 60 is a post-treatment oil and is therefore listed for blackened surfaces only. LABSTECT 10 states storage and transport without restricting it to indoor use and is therefore marked for shipping and transport only.

FOR INDOOR STORAGE

LABSTECT INDOOR 365

The very thin, easily washable protective film for indoor storage.

Labstect Indoor 365 is a corrosion preventive that leaves a very thin, easily washable protective film on metal surfaces. The product is specifically designed for indoor storage and is suitable for transports within Germany. In the salt spray test per DIN EN ISO 9227 it reaches approx. 5 h at a film weight of approx. 2.4 g/m². It is applied undiluted, preferably by dipping at room temperature or by spraying. Labstect Indoor 365 is not a water-displacing product and has no DW (de-watering) function.

TECHNICAL BENEFITS

- VERY THIN, EASILY WASHABLE PROTECTIVE FILM
- SPECIFICALLY DESIGNED FOR INDOOR STORAGE
- SALT SPRAY TEST APPROX. 5 H PER DIN EN ISO 9227
- REMOVABLE WITH LITTLE RESIDUE
- DIPPING AT ROOM TEMPERATURE OR SPRAYING, UNDILUTED

KEY DATA

APPEARANCE	yellow liquid
FILM WEIGHT	approx. 2.4 g/m² (film weight, internal)
SALT SPRAY TEST	approx. 5 h (DIN EN ISO 9227)
DENSITY	approx. 0.79 g/cm³ at 20 °C (DIN EN ISO 12185)
VISCOSITY	approx. 3.1 mm²/s at 20 °C (DIN EN ISO 3104)
FLASH POINT	> 62 °C (DIN EN ISO 2719)
MATERIAL SUITABILITY	metal surfaces
PACK SIZES	canister 20 L · drum 208 L

APPLICATION PROFILE

	PROCESS		PROCESS
●	Indoor storage	·	Blackened surfaces
·	In-plant intermediate storage	·	Heated dip baths
●	Shipping and transport		

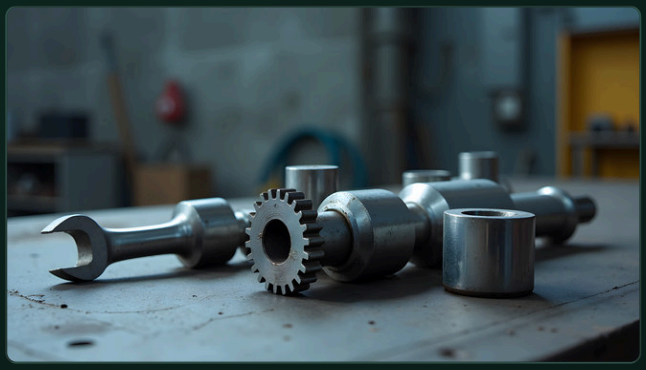
● = documented in the current product documentation

· = not listed for this product; an absent mark is not a negative rating

marks taken 1:1 from the application matrix on page 4

NOT A WATER-DISPLACING PRODUCT

Labstect Indoor 365 is not a water-displacing product and has no DW (de-watering) function. For the post-treatment of blackened steel surfaces with water displacement see LABSTECT DW BRÜN 60 on page 10.



TYPICAL APPLICATIONS Indoor storage of metallic components and transports within Germany.

FOR FURTHER DETAILS AND INFORMATION:

Contact our technical service to request the current technical data sheet (TDS) and safety data sheet (SDS) for detailed product, application, disposal and safety information.

TDS / SDS

/qr/corrosion/labstect-indoor-365/

All data are typical values, not specifications. Always refer to the current TDS and SDS.

THE PROVEN IN-PLANT AND SHIPPING PRESERVATIVE

LABSTECT S 62176

Temporary corrosion protection for in-plant preservation and shipping protection of metallic components.

Labstect S 62176 is a temporary corrosion preventive oil based on dearomatized isoparaffin as carrier solvent, engineered for in-plant preservation and shipping protection of metallic components. In the salt spray test per DIN EN ISO 9227 it reaches ≥ 10 h at a film weight of 1.3 g/m². It is suitable for ferrous and non-ferrous metals and is applied by spray, dip or brush. Before further processing, the protective film can be removed residue-free using standard industrial cleaners or aqueous-alkaline degreasers.

TECHNICAL BENEFITS

- SALT SPRAY TEST ≥ 10 H PER DIN EN ISO 9227
- FILM WEIGHT 1.3 G/M², DETERMINED GRAVIMETRICALLY
- DEAROMATIZED ISOPARAFFIN AS CARRIER SOLVENT
- SUITABLE FOR FERROUS AND NON-FERROUS METALS
- RESIDUE-FREE REMOVAL

KEY DATA

APPEARANCE	light yellow, liquid
FILM WEIGHT	1.3 g/m² (gravimetric)
SALT SPRAY TEST	≥ 10 h (DIN EN ISO 9227)
DENSITY	0.784 g/cm³ at 20 °C (DIN EN ISO 12185)
VISCOSITY	1.85 mm²/s at 40 °C (DIN EN ISO 3104)
FLASH POINT	> 62 °C (DIN EN ISO 2592)
MATERIAL SUITABILITY	ferrous and non-ferrous metals
PACK SIZES	canister 20 L · drum 208 L · IBC 1,000 L

APPLICATION PROFILE

	PROCESS		PROCESS
·	Indoor storage	·	Blackened surfaces
●	In-plant intermediate storage	·	Heated dip baths
●	Shipping and transport		

● = documented in the current product documentation

• = not listed for this product; an absent mark is not a negative rating

marks taken 1:1 from the application matrix on page 4

NO WATER-REPELLENT EFFECT

For this product the technical data sheet explicitly states “no water-repellent effect, process-reliable”. The protection rests on the film, not on water displacement.

TYPICAL APPLICATIONS In-plant preservation and shipping protection of metallic components in ferrous and non-ferrous metals.

FOR FURTHER DETAILS AND INFORMATION:
Contact our technical service to request the current technical data sheet (TDS) and safety data sheet (SDS) for detailed product, application, disposal and safety information.

TDS / SDS
/qr/corrosion/labstect-s-62176/

All data are typical values, not specifications. Always refer to the current TDS and SDS.

THE NEXT PROTECTION LEVEL OF THE S 62176 RANGE

LABSTECT S 62176 PLUS 1

The next protection level of the range: ≥ 16 h in the salt spray test per DIN EN ISO 9227.

Labstect S 62176 PLUS 1 is a temporary corrosion preventive oil based on dearomatized isoparaffin as carrier solvent, engineered for in-plant preservation and shipping protection of metallic components. In the salt spray test per DIN EN ISO 9227 it reaches ≥ 16 h at a film weight of 1.3 g/m², above the ≥ 10 h of Labstect S 62176. It is suitable for ferrous and non-ferrous metals and is applied by spray, dip or brush. Before further processing, the protective film can be removed residue-free using standard industrial cleaners or aqueous-alkaline degreasers.

TECHNICAL BENEFITS

- SALT SPRAY TEST ≥ 16 H PER DIN EN ISO 9227
- FILM WEIGHT 1.3 G/M², DETERMINED GRAVIMETRICALLY
- DEAROMATIZED ISOPARAFFIN AS CARRIER SOLVENT
- SUITABLE FOR FERROUS AND NON-FERROUS METALS
- RESIDUE-FREE REMOVAL

KEY DATA

APPEARANCE	light yellow, liquid
FILM WEIGHT	1.3 g/m² (gravimetric)
SALT SPRAY TEST	≥ 16 h (DIN EN ISO 9227)
DENSITY	0.775 g/cm³ at 20 °C (DIN EN ISO 12185)
VISCOSITY	1.78 mm²/s at 40 °C (DIN EN ISO 3104)
FLASH POINT	> 62 °C (DIN EN ISO 2592)
MATERIAL SUITABILITY	ferrous and non-ferrous metals
PACK SIZES	canister 20 L · drum 208 L · IBC 1,000 L

APPLICATION PROFILE

	PROCESS		PROCESS
·	Indoor storage	·	Blackened surfaces
●	In-plant intermediate storage	·	Heated dip baths
●	Shipping and transport		

● = documented in the current product documentation

• = not listed for this product; an absent mark is not a negative rating

marks taken 1:1 from the application matrix on page 4

NO WATER-REPELLENT EFFECT

For this product the technical data sheet explicitly states “no water-repellent effect, process-reliable”. The protection rests on the film, not on water displacement.

TYPICAL APPLICATIONS In-plant preservation and shipping protection of metallic components with raised requirements on protection duration.

FOR FURTHER DETAILS AND INFORMATION:
Contact our technical service to request the current technical data sheet (TDS) and safety data sheet (SDS) for detailed product, application, disposal and safety information.

TDS / SDS
/qr/corrosion/labstect-s-62176-plus-1/

All data are typical values, not specifications. Always refer to the current TDS and SDS.

THE HIGHEST DOCUMENTED PROTECTION LEVEL OF THE RANGE

LABSTECT S 62176 PLUS 2

The highest documented protection level of the range:
≥ 28 h in the salt spray test per DIN EN ISO 9227.

Labstect S 62176 PLUS 2 carries the highest salt spray result documented in this range: ≥ 28 h per DIN EN ISO 9227 at a film weight of 1.3 g/m². Like the rest of the range it is based on dearomatized isoparaffin as carrier solvent and is engineered for in-plant preservation and shipping protection of metallic components. It is suitable for ferrous and non-ferrous metals and is applied by spray, dip or brush. Before further processing, the protective film can be removed residue-free using standard industrial cleaners or aqueous-alkaline degreasers. Labstect S 100176 on page 9 reaches the same level with a flash point above 100 °C.

TECHNICAL BENEFITS

- SALT SPRAY TEST ≥ 28 H PER DIN EN ISO 9227
- FILM WEIGHT 1.3 G/M², DETERMINED GRAVIMETRICALLY
- DEAROMATIZED ISOPARAFFIN AS CARRIER SOLVENT
- SUITABLE FOR FERROUS AND NON-FERROUS METALS
- RESIDUE-FREE REMOVAL

KEY DATA

APPEARANCE	light yellow, liquid
FILM WEIGHT	1.3 g/m² (gravimetric)
SALT SPRAY TEST	≥ 28 h (DIN EN ISO 9227)
DENSITY	0.78 g/cm³ at 20 °C (DIN EN ISO 12185)
VISCOSITY	1.88 mm²/s at 40 °C (DIN EN ISO 3104)
FLASH POINT	> 62 °C (DIN EN ISO 2592)
MATERIAL SUITABILITY	ferrous and non-ferrous metals
PACK SIZES	canister 20 L · drum 208 L · IBC 1,000 L

APPLICATION PROFILE

	PROCESS		PROCESS
·	Indoor storage	·	Blackened surfaces
●	In-plant intermediate storage	·	Heated dip baths
●	Shipping and transport		

● = documented in the current product documentation

• = not listed for this product; an absent mark is not a negative rating

marks taken 1:1 from the application matrix on page 4

NO WATER-REPELLENT EFFECT

For this product the technical data sheet explicitly states “no water-repellent effect, process-reliable”. The protection rests on the film, not on water displacement.

TYPICAL APPLICATIONS In-plant preservation and shipping protection of metallic components at the highest documented protection duration of this range.

FOR FURTHER DETAILS AND INFORMATION:
Contact our technical service to request the current technical data sheet (TDS) and safety data sheet (SDS) for detailed product, application, disposal and safety information.

TDS / SDS
/qr/corrosion/labstect-s-62176-plus-2/

All data are typical values, not specifications. Always refer to the current TDS and SDS.

≥ 28 H WITH A FLASH POINT ABOVE 100 °C

LABSTECT S 100176

The ≥ 28 h protection level with a flash point above 100 °C.

Labstect S 100176 reaches ≥ 28 h in the salt spray test per DIN EN ISO 9227 at a film weight of 1.3 g/m². Its flash point is above 100 °C per DIN EN ISO 2592, the documented difference from the other products of this range, which are stated at > 62 °C. The viscosity of 5.6 mm²/s is measured at 20 °C and is therefore not comparable with the values of the S 62176 range, which are measured at 40 °C. The density is 0.835 g/cm³ at 20 °C. For application areas and material suitability of this product, please consult our technical service.

TECHNICAL BENEFITS

- SALT SPRAY TEST ≥ 28 H PER DIN EN ISO 9227
- FLASH POINT > 100 °C PER DIN EN ISO 2592
- FILM WEIGHT 1.3 G/M², DETERMINED GRAVIMETRICALLY
- VISCOSITY 5.6 MM²/S AT 20 °C
- CANISTER 20 L, DRUM 208 L, IBC 1,000 L

KEY DATA

APPEARANCE	light yellow, liquid
FILM WEIGHT	1.3 g/m² (gravimetric)
SALT SPRAY TEST	≥ 28 h (DIN EN ISO 9227)
DENSITY	0.835 g/cm³ at 20 °C (DIN EN ISO 12185)
VISCOSITY	5.6 mm²/s at 20 °C (DIN EN ISO 3104)
FLASH POINT	> 100 °C (DIN EN ISO 2592)
PACK SIZES	canister 20 L · drum 208 L · IBC 1,000 L

APPLICATION PROFILE

PROCESS	PROCESS
· Indoor storage	· Blackened surfaces
· In-plant intermediate storage	· Heated dip baths
· Shipping and transport	

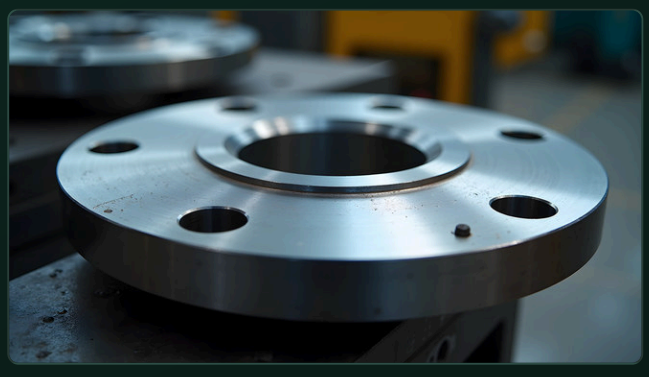
● = documented in the current product documentation

• = not listed for this product; an absent mark is not a negative rating

marks taken 1:1 from the application matrix on page 4. This product carries no mark there because its technical data sheet states no application areas of its own. An absent mark is not a negative rating.

MIND THE REFERENCE TEMPERATURE

The viscosity of this product is measured at 20 °C, that of the S 62176 range at 40 °C. A direct numerical comparison of the two readings is therefore not valid.



TYPICAL APPLICATIONS Applications that call for a flash point above 100 °C; please confirm the selection with our technical service.

FOR FURTHER DETAILS AND INFORMATION:

Contact our technical service to request the current technical data sheet (TDS) and safety data sheet (SDS) for detailed product, application, disposal and safety information.

TDS / SDS

/qr/corrosion/labstect-s-100176/

All data are typical values, not specifications. Always refer to the current TDS and SDS.

POST-TREATMENT OF BLACKENED STEEL SURFACES

LABSTECT DW BRÜN 60

The water-displacing post-treatment oil for blackened steel surfaces.

LABSTECT DW BRÜN 60 is a high-quality, water-displacing post-treatment oil for blackened (blued) steel surfaces. The result is a uniform, deep-black and glossy surface with improved temporary corrosion protection. It is applied undiluted by dipping or wetting; the recommended treatment time is 30 seconds to 5 minutes. The product is suitable for steel and low-alloy materials, with typical applications in firearm and hunting-rifle components, tool making, machine building, precision parts, fasteners and decorative bluing.

TECHNICAL BENEFITS

- WATER-DISPLACING POST-TREATMENT OIL
- UNIFORM, DEEP-BLACK AND GLOSSY SURFACE
- IMPROVED TEMPORARY CORROSION PROTECTION
- SUITABLE FOR STEEL AND LOW-ALLOY MATERIALS
- DIPPING OR WETTING, UNDILUTED

KEY DATA

APPEARANCE	yellow liquid
RESULT ON THE PART	uniform, deep-black and glossy surface
DENSITY	approx. 0.805 g/cm³ at 20 °C (DIN EN ISO 12185)
VISCOSITY	approx. 6 mm²/s at 20 °C (DIN EN ISO 3104)
FLASH POINT	> 62 °C (DIN EN ISO 2719)
MATERIAL SUITABILITY	steel and low-alloy materials
TREATMENT TIME	30 seconds to 5 minutes
PACK SIZES	canister 20 L · drum 208 L

APPLICATION PROFILE

	PROCESS		PROCESS
·	Indoor storage	●	Blackened surfaces
·	In-plant intermediate storage	·	Heated dip baths
·	Shipping and transport		

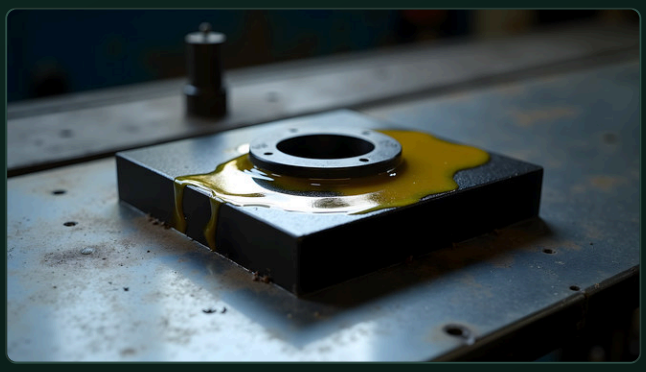
● = documented in the current product documentation

• = not listed for this product; an absent mark is not a negative rating

marks taken 1:1 from the application matrix on page 4

NO SALT SPRAY FIGURE IN THE DATA SHEET

For this product the technical data sheet states neither a film weight nor a salt spray result. LABSTECT DW BRÜN 60 therefore sits outside the protection-level ladder on page 3.



TYPICAL APPLICATIONS Firearm and hunting-rifle components, tool making, machine building, precision parts, fasteners and decorative bluing.

FOR FURTHER DETAILS AND INFORMATION:

Contact our technical service to request the current technical data sheet (TDS) and safety data sheet (SDS) for detailed product, application, disposal and safety information.

TDS / SDS

/qr/corrosion/labstect-dw-bruen-60/

All data are typical values, not specifications. Always refer to the current TDS and SDS.

CORROSION PROTECTION OIL FOR METALWORKING

LABSTECT 10

The low-viscosity corrosion protection oil for storage and transport in metalworking.

Labstect 10 is a low-viscosity corrosion protection oil based on dearomatized hydrocarbons with effective corrosion inhibitors. It provides reliable temporary corrosion protection for metallic surfaces during storage and transport and is widely used in the metalworking industry. Labstect 10 forms a thin, non-tacky protective film; the low viscosity of approx. 2.9 mm²/s at 20 °C gives uniform coverage and good penetration into complex geometries. The product is suitable for ferrous and non-ferrous metals, is applied by spray, dip or brush and is readily removable before further processing.

TECHNICAL BENEFITS

- RELIABLE TEMPORARY CORROSION PROTECTION
- THIN, NON-TACKY PROTECTIVE FILM
- LOW VISCOSITY FOR UNIFORM COVERAGE
- GOOD PENETRATION INTO COMPLEX GEOMETRIES
- SUITABLE FOR FERROUS AND NON-FERROUS METALS

KEY DATA

APPEARANCE	yellow, liquid
VISCOSITY	approx. 2.9 mm²/s at 20 °C (ASTM D 7042)
DENSITY	0.78 g/cm³ at 20 °C (ASTM D 7042)
FLASH POINT	> 62 °C (DIN ISO 2592)
INITIAL BOILING POINT	> 175 °C (DIN EN ISO 3405)
MATERIAL SUITABILITY	ferrous and non-ferrous metals
APPLICATION	spray, dip or brush
PACK SIZES	canister 20 L · drum 208 L · IBC 1,000 L

APPLICATION PROFILE

	PROCESS		PROCESS
·	Indoor storage	·	Blackened surfaces
·	In-plant intermediate storage	·	Heated dip baths
●	Shipping and transport		

● = documented in the current product documentation

• = not listed for this product; an absent mark is not a negative rating

marks taken 1:1 from the application matrix on page 4

NO SALT SPRAY FIGURE IN THE DATA SHEET

For this product the technical data sheet states neither a film weight nor a salt spray result. LABSTECT 10 therefore sits outside the protection-level ladder on page 3.

TYPICAL APPLICATIONS Storage and transport of metallic surfaces in the metalworking industry.

FOR FURTHER DETAILS AND INFORMATION:
Contact our technical service to request the current technical data sheet (TDS) and safety data sheet (SDS) for detailed product, application, disposal and safety information.

TDS / SDS
/qr/corrosion/labstect-10/

All data are typical values, not specifications. Always refer to the current TDS and SDS.

WATER-MISCIBLE HIGH-PERFORMANCE CORROSION PREVENTIVE

LABSTECT WM X150

The water-miscible corrosion preventive emulsion for heated dip baths, free of boron and formaldehyde releasers.

Labstect WM X150 is a mildly alkaline, sprayable, mineral oil-based water-miscible corrosion preventive emulsion, free of boron and formaldehyde releasers. It is designed for the temporary corrosion protection of components made of steel, cast iron and non-ferrous metals and forms an electrolyte- and temperature-stable emulsion independent of the application concentration. At 100 % active substance the product reaches a film weight of 5.2 g/m², at 20 % by dipping it is 1.2 g/m². In the salt spray test per DIN EN ISO 9227 NSS it reaches > 1 h at 100 % active substance and passes more than 4 cycles of the humidity-cycle test per DIN EN ISO 6270-2. The optimal application temperature is between 60 °C and 80 °C; the product is suitable for heated baths.

TECHNICAL BENEFITS

- BORON AND FORMALDEHYDE-FREE, SKIN-FRIENDLY FORMULATION
- ELECTROLYTE AND TEMPERATURE-STABLE UP TO 80 °C
- RESISTANT TO SULFONATES AND PHOSPHATES
- EXCELLENT COMPATIBILITY WITH VCI FILMS
- UNIVERSAL FOR FERROUS AND NON-FERROUS METALS

APPLICATION PROFILE

	PROCESS		PROCESS
·	Indoor storage	·	Blackened surfaces
·	In-plant intermediate storage	●	Heated dip baths
·	Shipping and transport		

● = documented in the current product documentation

• = not listed for this product; an absent mark is not a negative rating

marks taken 1:1 from the application matrix on page 4

CONCENTRATE, PREPARE BEFORE USE

Prepare the emulsion by slowly pouring the product into a pre-filled tap water container with thorough agitation. For stable corrosion protection, dry components completely before packaging. The protective film can be removed residue-free using organic solvents or aqueous-alkaline industrial cleaners.

KEY DATA

CONCENTRATION	10 %, 20 % or 100 % by dipping
REFRACTOMETER FACTOR	1.0
CORROSION TEST	DIN EN ISO 9227 NSS, > 1 h at 100 % active substance · DIN EN ISO 6270-2, more than 4 cycles of the humidity-cycle test
PACK SIZES	canister 20 L · drum 208 L · IBC 1,000 L
APPEARANCE	dark brown, clear to slightly hazy
FILM WEIGHT	0.8 g/m² (10 %) · 1.2 g/m² (20 %) · 5.2 g/m² (100 %)
DENSITY	0.97 g/cm³ at 15 °C (ASTM D 7042)
VISCOSITY	108.0 mm²/s at 40 °C (ASTM D 7042)
FLASH POINT	> 100 °C (DIN EN ISO 2719)
PH VALUE	8.5 at 20 % and 70 °C (DIN EN ISO 10523)
CONDUCTIVITY	4500 µS/cm at 20 % and 70 °C (DIN EN 27888)
APPLICATION TEMPERATURE	60 °C to 80 °C
MATERIAL SUITABILITY	steel, cast iron and non-ferrous metals

TYPICAL APPLICATIONS Temporary corrosion protection of components made of steel, cast iron and non-ferrous metals in heated dip baths.

FOR FURTHER DETAILS AND INFORMATION:

Contact our technical service to request the current technical data sheet (TDS) and safety data sheet (SDS) for detailed product, application, disposal and safety information.

TDS / SDS

/qr/corrosion/labstect-wm-x150/

All data are typical values, not specifications. Always refer to the current TDS and SDS.

SERVICES

OUR SERVICES · MORE THAN A PRODUCT

The right corrosion preventive is only the beginning. Voitländer-International supports your process with laboratory expertise, application engineering and custom development: services that large corporations reserve for their largest accounts.

01

TECHNICAL SERVICE

support with product selection, application and process integration on your equipment

02

CUSTOM-TAILORED DEVELOPMENT

formulations adapted to your parts, materials and process

03

LABORATORY SERVICE

precise recommendations based on exact laboratory results, every batch laboratory-tested

04

RESEARCH AND DEVELOPMENT

state-of-the-art formulation technology for maximum quality and efficiency

05

PARTNERSHIP

we support you from the first idea to final implementation

REQUEST A SAMPLE AND THE CURRENT SDS

technology@voitlaender-international.com

CONTACT
/qr/corrosion/contact/

AN INDUSTRY PARTNER FOR MORE THAN 180 YEARS

High Performance Meets Responsibility · Lubricants for a New Generation.

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All data are typical values, not specifications. Always refer to the current TDS and SDS.